

*The ideal balance of performance and portability*



## IBM ThinkPad 600X Notebooks

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### Highlights

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**NEW!**

#### **Pentium III goes mobile**

IBM ThinkPad® 600X notebooks feature the latest Mobile Pentium® III processor at up to 650MHz<sup>1</sup> with Intel® SpeedStep™ technology (models 5FU/9FU only), as well as the 100MHz processor system bus for fast access to memory and graphics. With the Mobile Pentium III processor, you'll combine Pentium III performance with the power of the Internet for the ultimate e-business capabilities wherever you go. Plus, new ThinkPad 600X notebooks (models 5FU/9FU only) also feature Intel SpeedStep technology, which provides separate battery and AC power processor performance modes to optimize your notebook's performance on the road or at your desk.

**NEW!**

#### **Superb technology and performance**

The ThinkPad 600X also includes a hard disk drive as large as 12GB<sup>2</sup>, expandable memory up to 576MB and enhanced graphics. Its modular UltralimBay can support a standard or optional DVD or CD-ROM drive, SuperDisk drive, optional second battery and more.

#### **Robust connectivity and manageability**

With an integrated 56K<sup>3</sup> V.90 Mini-PCI modem and IBM's Universal Manageability—a comprehensive set of standards-based PC hardware and software manageability tools—the ThinkPad 600X notebook offers robust connectivity and manageability for the mobile professional.

With the ThinkPad 600X notebook's beautifully crafted, lightweight design, IBM integrates some of the finest mobile technology features, including the latest Intel Mobile Pentium III processor, bright 13" display, integrated 56K V.90 Mini-PCI modem and a modular UltralimBay to accommodate a wide range of options. All within an innovative UltraCarbon™ casing that minimizes weight and size. At about 5 lb<sup>4</sup> and with an approximate 1.4"<sup>5</sup> profile, the ThinkPad 600X slips easily under your arm or into your briefcase. For the most demanding mobile professionals, the ThinkPad 600X delivers the ultimate in flexibility and connectivity at a competitive price.



# ThinkPad®



"Portable Desktop Replacement"  
PC Computing, November 1999

# Features and benefits

## Simple convenience

- Full-size 85-key keyboard with palm rest
- Enhanced TrackPoint® with "Press-to-Select" option
- Power management on-screen
- Access ThinkPad —helps you set up and learn about your ThinkPad notebook for optimal mobile performance

## Compatible operating systems<sup>6</sup>

- Windows® 2000\*, Windows 98, Windows 95, Windows 3.11, Windows NT® WorkStation 4.0, OS/2® Warp V4

- Upgrade Program for Windows NT to Windows 2000 Professional. Visit [www.ibm.com/pc/www/software/windows/2000/upgrade.html](http://www.ibm.com/pc/www/software/windows/2000/upgrade.html).

## Reducing Total Cost of Ownership/Universal Manageability

IBM's Universal Manageability tools help streamline PC systems management tasks in the enterprise. These standards-based client PC tools are included in ThinkPad notebooks, or are available from the Web, helping you reduce the Total

Cost of Ownership, including

- Common Information Model (CIM) compliant and designed to Wired for Management (WfM) guidelines
- Local and remote asset management via IBM UM Services™, which natively integrates into leading management applications
- Remote setup and low-level maintenance via IBM LANClient Control Manager™

Visit [www.ibm.com/pc/us/software/systmgmt](http://www.ibm.com/pc/us/software/systmgmt) for more information.

## ThinkPad 600X technical specifications

Model 2645-	<b>NEW!</b> 5FU/9FU	5EU/9EU	4EU/8EU/8PU	3EU/7EU
<b>Intel Pentium Processor</b>	650MHz <sup>1</sup> Mobile Pentium III Intel SpeedStep technology	500MHz Mobile Pentium III	500MHz Mobile Pentium III	450MHz Mobile Pentium III
<b>Level 2 cache</b>	256KB (at processor speed)	256KB (at processor speed)	256KB (at processor speed)	256KB (at processor speed)
<b>Display</b>	13.3" TFT	13.3" TFT	13.3" TFT	13.3" TFT
<b>Max resolution/colors</b>	1024x768/16M	1024x768/16M	1024x768/16M	1024x768/16M
<b>Memory</b> (std/max)	64MB/576MB	64MB/576MB	64MB/576MB	64MB/576MB
<b>100MHz processor system bus</b>	yes	yes	yes	yes
<b>S.M.A.R.T.<sup>7</sup> Hard disk drive</b>	12GB <sup>2</sup>	12GB	12GB	6GB
<b>Diskette drive</b>	external	external	external	external
<b>DVD/CD-ROM drive</b>	6X-2X <sup>8</sup> DVD-ROM drive/ 24X-10X <sup>8</sup> CD-ROM drive	6X-2X DVD-ROM drive	24X-10X CD-ROM drive	24X-10X CD-ROM drive
<b>Multimedia features</b>	AGP; NeoMagic® MagicGraph256ZX™ 256-bit graphics accelerator; 4MB SGRAM; 3D Sound w/FM synthesis, Sound Blaster® Pro support, in/out jacks for external microphone, speakers and headphones; software-supported MPEG-1 playback; Multiple Monitor support <sup>9</sup>			
<b>Composite video-out (NTSC/PAL) port</b>	yes	yes	no	no
<b>Modem</b>	56K <sup>3</sup> V90 Mini-PCI	56K V90 Mini-PCI	56K V90 Mini-PCI	56K V90 Mini-PCI
<b>PC Card support</b>	2 Type II, 1 Type III, ZV port	2 Type II, 1 Type III, ZV port	2 Type II, 1 Type III, ZV port	2 Type II, 1 Type III, ZV port
<b>Preloaded operating system</b>	Windows 98 SE <sup>10</sup> / Windows 2000*	Windows 98 SE/ Windows NT 4.0	Windows 98 SE/ Windows NT 4.0/ Windows 2000	Windows 98 SE/ Windows NT 4.0
<b>Battery type/battery life<sup>11</sup></b>	Li-Ion/3hr	Li-Ion/3hr	Li-Ion/3hr	Li-Ion/3hr
<b>Standard I/O interfaces</b>	serial, parallel, USB, diskette, keyboard/mouse, docking interface, audio I/O, external monitor, infrared			
<b>Dimensions<sup>5</sup></b>	1.4"x11.8"x9.4"	1.4"x11.8"x9.4"	1.4"x11.8"x9.4"	1.4"x11.8"x9.4"
<b>Approx travel weight<sup>4</sup></b>	4.9 lb	4.9 lb	4.9 lb	4.9 lb
<b>Approx weight with diskette drive</b>	5.4 lb	5.4 lb	5.4 lb	5.4 lb
<b>with DVD/CD-ROM<sup>4</sup></b>	5.6 lb	5.6 lb	5.6 lb	5.6 lb

\*Planned availability February 2000

## ThinkPad options and upgrades

### Options by IBM

Options by IBM offers a wide range of upgrades designed for your ThinkPad notebook. For more information visit:  
[www.ibm.com/options](http://www.ibm.com/options) (U.S.)  
[www.ibm.com/pc/ca/accessories](http://www.ibm.com/pc/ca/accessories) (CA)

#### • IBM Memory upgrades

- 256MB SDRAM SO DIMM	33L3069
- 128MB SDRAM SO DIMM	20L0255
- 64MB SDRAM SO DIMM	20L0254

#### • Storage

- 18GB Hard Disk Drive	37L2993
- 12GB Hard Disk Drive	05K9200
- 6GB Hard Disk Drive	05K9199
- UltralimBay Second Hard Disk Drive Adapter	05K5336
- IBM 340MB microdrive	00N8073

#### • UltralimBay accessories

- 24X-10X CD-ROM Drive	05K9122
- 6X-2X DVD Drive**	05K9169
- SuperDisk (LS-120) Drive	20L1929
- Zip 100MB Drive	37L1507

#### • Power when and where you need it

- IBM 56W Ultralim AC Adapter	02K6545
- IBM DC Automobile Adapter	02K3381
- Li-Ion Battery	12J2464
- UltralimBay Battery	02K6504

#### • Desktop expansion

- SelectaBase 600	12J2467
- SelectaDock III <sup>12</sup>	3547003
- PC Card Enabler <sup>12</sup>	83H6741
- PC Card Enabler with Advanced EtherJet™ Feature <sup>12</sup>	05K4820
- IBM MultiPort USB Hub	00N8215
- Portable Drive Bay	37L1511

#### • Networking

- Turbo 16/4 Token-Ring PC Card 2	33L1401
- 10/100 EtherJet CardBus Adapter	08L3147
- 10/100 LAN CardBus PC Card with XJack Connector by 3Com	09N9801

#### • IBM V.90 56K PC Card Modem upgrades

- International ISDN Modem with GSM Upgradability	02K4282
- International Modem with GSM Upgradability	02K4280

\*\*Planned availability February 2000

### ThinkPad Proven™<sup>13</sup> accessories

Complementary to IBM's own options are additional third-party mobile accessories from ThinkPad Proven partners. ThinkPad Proven products are tested, warranted and supported by the manufacturer to ThinkPad Compatibility Standards. For a complete list, see [www.ibm.com/pc/thinkpad/proven](http://www.ibm.com/pc/thinkpad/proven).

- PORT, Inc.—ThinkPad 600 SlimLine Case
- Addonics, Inc.—PocketZip and PocketSuperDisk (LS120) drive (USB or Parallel Port connect)
- CNF, Inc.—20X-15X cardportCD-RW (PC Card connect)
- Veridicom, Inc.—5th Sense Fingerprint ID device (USB or Parallel Port connect) offered with various software security packages
- Margi, Inc.—DVD-to-Go™ DVD playback card that supports the playback of MPEG-2 audio/video and data

**NEW!**

**NEW!**



SuperDisk (LS-120)  
UltralimBay Drive



DVD-ROM  
UltralimBay Drive



Ultralim 56W  
AC Adapter



10/100 EtherJet Ready  
CardBus with 56K Modem

## ThinkPad 600X docking solutions

- Basic cable management with the optional SelectaBase 600
- Optional PC Card Enabler with Advanced EtherJet Feature adds two PC CardBus slots and 10/100 EtherJet capability, plus IBM Wake on LAN<sup>®</sup> support, to the SelectaBase 600
- Desktop functionality and manageability via the SelectaBase 600 and optional SelectaDock III's<sup>12</sup> two full-size and one half-size PCI ISA slots, two PC CardBus slots, SCSI-3, one half-high industry-standard bay, two USB ports, Plug and Play convenience and Wake on LAN support



SelectaBase 600

SelectaDock III

## The IBM PC Lifecycle Care program

This program features life cycle management and transition planning tools, support and platforms to help you better manage your company's IT assets. Visit [www.ibm.com/pc/www/solutions/lccare](http://www.ibm.com/pc/www/solutions/lccare) for more information.

## IBM SystemXtra

ThinkPad notebooks are available with IBM SystemXtra<sup>®14</sup>, the program that brings together the best of IBM to deliver affordable, simple solutions to businesses of all sizes. SystemXtra can provide services, software, training, e-business offerings and lease options to help qualified customers spend little up front and keep their ThinkPad notebooks current. Visit [www.ibm.com/pc/us/systemxtra](http://www.ibm.com/pc/us/systemxtra) for more information.

## IBM warranty service and support

- Three-year limited warranty<sup>15</sup>
- International Warranty Service<sup>16</sup>
- EasyServ<sup>TM17</sup> door-to-door depot repair service via courier
- Toll-free hardware support during the warranty period
- Personalized Web-based support
- Service upgrades are available based on the specific ThinkPad notebook purchased. Visit [www.ibm.com/services/pss/us/spwmain.html](http://www.ibm.com/services/pss/us/spwmain.html) or call your IBM authorized reseller for additional information.

## Need more information?

### World Wide Web

U.S. [www.ibm.com/pc/us/thinkpad](http://www.ibm.com/pc/us/thinkpad)  
Canada [www.ibm.com/pc/ca/thinkpad](http://www.ibm.com/pc/ca/thinkpad)

### IBM Fax Information Service

1 800 IBM-3395  
ThinkPad Information Directory Doc #11078

### Product and Dealer Location Information

U.S. 1 800 426-7255 ext. 4751  
Canada 1 800 426-2255

### Reminders for Year 2000 Readiness

Worldwide [www.ibm.com/pc/year2000](http://www.ibm.com/pc/year2000)

### Buy Direct

U.S. 1 877 IBM 4PCS  
1 877 426-4727

<sup>1</sup> MHz only measures microprocessor internal clock speed, not application performance. Other factors also affect application performance. For the models 5FU/9FU, denotes maximum performance mode; battery optimization mode is 500MHz.

<sup>2</sup> When referring to hard disk drive capacity, GB equals one billion bytes. Accessible capacity may be less.

<sup>3</sup> Designed to be capable of receiving data at up to 56Kbps with a compatible phone line and server equipment, and transmitting data up to about 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

<sup>4</sup> Includes battery in the system. Travel weight also includes travel cover in UltralimBay; weight may vary due to vendor components, manufacturing process and options.

<sup>5</sup> Thickness may vary at certain points on the system.

<sup>6</sup> Level of support varies by operating system. Operating systems not preloaded on the system may not provide full-feature functionality. Please refer to [www.pc.ibm.com/support](http://www.pc.ibm.com/support), select a notebook brand, click on "Product Information," "choose your machine type," then click on "Product Limitations."

<sup>7</sup> Self-Monitoring, Analysis and Reporting Technology.

<sup>8</sup> Variable read rate. Actual playback speed will vary and is often less than the maximum possible.

<sup>9</sup> Multiple Monitor support on the 600X gives you the ability to expand your ThinkPad desktop area by attaching an external monitor or second display, allowing you to view two different applications running simultaneously. External device must support the same maximum resolution and refresh rate as that of the built-in notebook display. Available video memory may limit resolution and/or color depth. Individual application support for this feature will vary.

<sup>10</sup> Delivered with Windows 98 SE preloaded on the hard disk drive and a Windows 98 SE Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. Installation of Windows 95 results in removal of the Windows 98 preload.

<sup>11</sup> Results obtained using BAPCo (Business Applications Performance Corporation) SYSmark Benchmark Test. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery life may be less using Windows NT.

<sup>12</sup> Requires optional SelectaBase 600.

<sup>13</sup> IBM makes no warranties, either express or implied, regarding the ThinkPad Proven products and services, including but not limited to Year 2000 readiness and any implied warranties of merchantability or fitness for a particular purpose.

<sup>14</sup> SystemXtra is available to commercial and state and local government customers with valid credit. Program is subject to change without notice. Additional terms, conditions, limitations and fees may apply. IBM Global Financing offerings are made available through IBM Credit Corporation in the U.S. and other IBM subsidiaries and divisions worldwide.

<sup>15</sup> For terms and conditions or a copy of IBM's Statement of Limited Warranty, call 1 800 772-2227 in the U.S. and in Canada, call 1 800 426-2255.

<sup>16</sup> Available in those countries where IBM and IBM resellers sell and service ThinkPad products. Registration required. Service level is based on the standard service for ThinkPad notebooks in that particular country.

<sup>17</sup> The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the warranty period.

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Made in Scotland, Mexico, Japan or assembled in the U.S. of U.S. and non-U.S. components.



Printed on recycled paper containing  
10% recovered post-consumer fiber.



\*Tested, warranted and supported by manufacturer to ThinkPad Compatibility Standards.



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